

APPENDIX F

WATER QUALITY EMERGENCY NOTIFICATION PLAN



SANDRA SHEWRY
Director

State of California—Health and Human Services Agency
Department of Health Services



ARNOLD SCHARZENEGGER
Governor

WATER QUALITY EMERGENCY NOTIFICATION PLAN

Name of Utility: City of Brentwood

System #: 0710004

System Location/County: (Contra Costa County)

The following person(s) have been designated to implement the plan upon notification by the State Department of Health Services that an imminent danger to the health of the water users exists:

<u>Name</u>	<u>Title</u>	<u>Day Phone/Evening Phone</u>
1. Chris Ehlers, Water Manager	925.516.6020/925.382.9410-cell	
2. Richard Navarro, Water Supervisor	925.382.5540	
3. Paul Zolfarelli, Director of Public Works	925.516.6000/925.382.4287-cell	

The implementation of the plan will be carried out with the following State and County Health Department personnel.

<u>Name</u>	<u>Title</u>	<u>Day Phone</u>	<u>Evening Phone</u>
1. Betty Graham	Senior Sanitary Engineer	(510) 540-3004	(510) 234-9522
2. Vlad Rakhamimov	Associate Sanitary Engineer	(510) 540-2148	(510) 540-9577
3. William Alejandro Sr.	Environmental Health Spec.	(925) 646-5225	(925) 975-8892

If the above personnel cannot be reached, contact The Office of Emergency Services (24 hours) at (916) 262-1621

Describe methods or combination of methods to be used (radio, television, door-to-door, sound truck, etc). For each section of your plan, give an estimate of the time required, necessary personnel, and estimated coverage. Consideration must be given to special organizations, particularly non-English speaking groups and outlying water users. (Use the other side or attach additional pages if necessary).

Report Prepared by: Chris Ehlers, Water Operations Manager


Signature and Title

6/16/05
Date



Do your part to help California save energy. To learn more about saving energy, visit the following web site:
www.consumerenergycenter.org/flex/index.html

Drinking Water Field Operations Branch, 2151 Berkeley Way, Room 458, Berkeley, CA 94704-1011
(510) 540-2158 FAX (510) 540-2152

DHS Internet Address: www.dhs.ca.gov Program Internet Address: www.dhs.ca.gov/ps/ddwem

APPENDIX G

NOTICE OF PUBLIC HEARING AND MUNICIPAL CODE

NOTICE OF PUBLIC HEARING

Notice is hereby given that the City Council of the City of Brentwood will hold a public hearing at 7:00 p.m. or as soon thereafter as the normal course of business permits on December 13, 2005 to consider the following matter:

Consideration of Adoption of a Resolution approving the 2005 Urban Water Management Plan as submitted by Brown and Caldwell, Environmental Engineers and Consultants.

Said hearing will be held at the City Council Chambers, 734 Third Street, Brentwood, CA 94513.

Further information may be obtained from City Hall, 708 Third Street, Brentwood, California 94513, (925) 516-5400.

If you challenge the City Council's action in court, you may be limited to raising only those issues you or someone else raised at the public hearing described in this notice, or in written correspondence delivered to the Brentwood City Council at, or prior to, the public hearing.

Dated: November 7, 2005

/s/

Cynthia Garcia, CMC
Assistant City Clerk

Chapter 17.630

LANDSCAPING AND SCREENING

Sections:

- 17.630.001 Title and purpose of provisions.
- 17.630.002 Applicability of provisions—General.
- 17.630.003 Definitions.
- 17.630.004 Landscaping required.
- 17.630.005 Screening required.
- 17.630.006 Shade trees required.
- 17.630.007 Exceptions—Landscaping and screening.
- 17.630.008 Landscape standards.
- 17.630.009 Screening standards.
- 17.630.010 Landscaping for new development.
- 17.630.011 Installation.

17.630.001 Title and purpose of provisions.

A. Title. The provisions of this chapter shall be known as the “landscaping and screening regulations” of this title.

B. Purpose. The purpose of the landscape and screening regulations is to provide for the general welfare and convenience of the public by:

1. Increasing the compatibility between different intensities of land uses, by providing visual barriers, visually interrupting the barren expanse of paved parking lots, screening undesirable views which have a blighting impact on surrounding properties, and providing a visual separation and physical buffer between varying intensities of abutting land uses;
2. Implementing the comprehensive plan;
3. Encouraging the retention of significant existing vegetation to the extent feasible;
4. Reducing erosion and water runoff;
5. Conserving energy;
6. Preserving and promoting urban wildlife habitats;
7. Minimizing impacts of noise, light and glare. (Ord. 408 (part), 1987)

17.630.002 Applicability of provisions—General.

A. Landscaping shall be required within all yards, off-street parking lots and open land uses that are visible to and/or accessible to the public.

B. Shade trees shall be required within required landscaping, off-street parking lots and open land uses.

C. Screening shall be required as a buffer between activities having a different intensity of use and between certain zoning districts so as to mitigate the impacts of noise, light and glare and human activity.

D. All ornamental uses of water in the common areas of a development project, such as ponds, lakes and fountains shall be supplied, operated and maintained with alternative sources of water if they are available.

E. Exceptions to the specific requirements may be granted on a case-by-case basis due to either unusual site conditions or other extenuating circumstances.

F. The requirements are applicable to:

1. All landscaping for new construction, including:
 - a. All residential development greater than one unit,
 - b. Model homes or temporary development,
 - c. Commercial,
 - d. Industrial,
 - e. Public authorities.

G. The requirements shall be used as a guideline for landscaping and irrigation for a single-family residence.

H. The requirements does not apply to that portion of a site irrigating edible crops or using nonpotable water. (Ord. 523 § 2, 1992; Ord. 408 (part), 1987)

17.630.003 Definitions.

For the purposes of this chapter, unless otherwise apparent from the context, certain words and phrases used in this chapter are defined as follows:

A. “Landscaping” means vegetative plantings such as grass, trees, shrubs and vines and related

improvements such as pools, walkways, rock work and sculpture which is of a design that will beautify and enhance a property and control erosion and reduce glare.

B. "Screening" means a masonry wall, board fence, screened chain link fence, hedge, berm or vegetative planting or combination thereof which is of a design that will provide a visual and audible barrier between land uses having different intensities of use.

C. "Shade tree" means trees of a variety approved by the city that will, under ordinary circumstances and growing conditions, provide shade upon reaching maturity.

D. "Automatic controller" means a mechanical or solid state timer, capable of operating valve stations to set the days and length of time of a water application.

E. "Check valve" means a valve located under a sprinkler head to hold water in the system so it minimizes drainage from the lower elevation sprinkler heads.

F. "Conversion factor (0.62)" means a number that converts the estimated total water use from acres-inches per acre per year to gallons per square foot per year. The conversion factor is calculated as follows:

$$\begin{aligned} (325,851 \text{ gallons}/43,560 \text{ square feet})/12 \text{ inches} &= \\ (0.62) & \\ 325,851 \text{ gallons} &= \text{one acre foot} \\ 43,560 \text{ square feet} &= \text{one acre} \\ 12 \text{ inches} &= \text{one foot} \end{aligned}$$

To convert gallons per year to one hundred-cubic-feet per year, another common billing unit for water, divide gallons per year by seven hundred forty-eight. (Seven hundred forty-eight gallons equal one hundred cubic feet.)

G. "Estimated total water use" means the annual total amount of water estimated to be needed to keep the plants in the landscaped area healthy. It is based upon such factors as the local evapotranspiration rate, the size of the landscaped area, the

type of plants, and the efficiency of the irrigation system.

H. "Evapotranspiration" means the quantity of water evaporated from adjacent soil surfaces and transpired by plants during a specific time.

I. "Flowrate" means a portion of the landscaped area having plants with similar water needs that are served by a valve or set of valves with the same schedule. A hydro-zone may be irrigated or nonirrigated. For example, a naturalized area planted with native vegetation that will not need supplemental irrigation once established is a nonirrigated hydrozone.

J. "Hydrozone" means a portion of the landscaped area having plants with similar water needs that are served by a valve or set of valves with the same schedule. A hydrozone may be irrigated or nonirrigated. For example, a naturalized area planted with native vegetation that will not need supplemental irrigation once established is a nonirrigated hydrozone.

K. "Irrigation efficiency" means the measurement of the amount of water beneficially used divided by the amount of water applied. Irrigation efficiency is derived from measurements and estimates of irrigation system characteristics and management practices. For the purpose of this chapter the following factors shall be used:

Spray heads (pop-up or riser)	0.60
Rotor or impact heads	0.70
Bubbler	0.70
Drip	0.76

L. "Landscape irrigation audit" means a process to perform site inspections, evaluate irrigation systems and develop efficient irrigation schedules.

M. "Landscaped area" means the entire parcel less the building(s) footprint, driveways, nonirrigated portions of the parking lots, hardscapes such as decks and patios and other nonporous areas. Water features are included in the calculation of the landscaped area. Areas dedicated to edible plants, such as orchards or vegetable gardens, are not included.

N. "Mulch" means any material such as leaves, bark, straw or other materials left loose and applied to the soil surface to reduce evaporation.

O. "Nonpotable water" means water unfit for human consumption, such as treated or recycled waste water, untreated irrigation water or untreated groundwater.

P. "Overspray" means the water which is delivered beyond the landscaped area, wetting pavements, walks, structures or other nonlandscaped areas.

Q. "Plant factor" means a factor that when multiplied by reference evapotranspiration, estimates the amount of water used by plants. For purposes of this ordinance, use the following plant factors:

Low water using:	0.1 - 0.3
Medium water using:	0.4 - 0.6
High water using:	0.7 - 0.9

These plant factors are based on the Water Use Classification Of Landscape Species project (WUCOLS). The project list is intended solely as a guide to help landscape professional identify irrigation water needs of landscape species. It is not intended to be used as a required, mandatory, approved or master list. The WUCOLS Project is available from the California Department of Water Resources or from the Contra Costa water district.

R. "Reference evapotranspiration" or "ET_o" means a standard measurement of environmental parameters which affect the water use of plants. ET_o is given in inches per day, month or year and is an estimate of the evapotranspiration of a large field of four-to-seven-inch tall, cool season grasses that is well watered. Reference evapotranspiration is used as the basis of determining the estimated total water use so that regional differences in climate can be accommodated. (For historical ET_o rates see Exhibit B attached to the ordinance codified in this chapter.)

S. "Runoff" means water which is not absorbed by the soil or landscape to which it is applied and flows from the area. For example, runoff may result from water that is applied at too great a rate (application rate exceeds infiltration rate) or when there is a severe slope.

T. "Soil composition" means the classification of soil based on the percentage of sand, silt and clay in the soil.

U. "Sprinkler" means a device which sprays water through a nozzle.

V. "Station" means an area served by one valve or by a set of valves that operate simultaneously.

W. "Turf" means a surface layer of earth containing mowed grass and its roots. This can be either a cool season or warm season grass. For example, Red Fescue and Tall Fescue are cool season grasses; Bermuda grass, Kikuyu grass, St. Augustine, Zoysia grass, and Buffalo grass are warm season grasses.

X. "Valve" means a device used to control the flow of water in the irrigation systems. (Ord. 523 § 3, 1992; Ord. 408 (part), 1987)

17.630.004 Landscaping required.

Landscaping in conformance with Section 17.630.008 shall be required as follows:

A. Residential uses: Within any front yard or side yard adjacent to a street;

B. Public and quasi-public uses: Within any parking lot, front yard, side yards adjacent to a street or interior open space that is visible from a public right-of-way or accessible to the public;

C. Commercial and industrial uses: Within any parking lot, front yard, side yard adjacent to a street or open land use that is visible from a public right-of-way or accessible to the public;

D. Where a parking lot abuts a public right-of-way there shall be required a landscaped strip of not less than five feet in width contiguous to and parallel to such right-of-way;

E. Except for single-family residential uses landscaping shall be subject to design and site development review. (Ord. 408 (part), 1987)

17.630.005 Screening required.

Screening in conformance with Section 17.630.009 shall be required as follows:

A. Along the interior boundaries between any R, A, or OS zone and any C, IC, PEC, PF or SPF zone.

B. Parking lots for more than six vehicles shall be enclosed, except for necessary driveway open-

ings, by screening where contiguous to or within two hundred feet of any property in any R zone, any A zone or the OS zone.

C. Where a parking lot abuts a public right-of-way across from property in any R zone, any A zone or the OS zone, such lot shall be screened along that right-of-way to a height of forty-eight inches.

D. The following specific uses shall be screened:

1. Multiple residential projects having four or more dwellings;
2. Public and quasi-public uses such as churches, schools and similar uses;
3. The boundaries of new subdivisions upon development;
4. Mobile home parks. (Ord. 408 (part), 1987)

17.630.006 Shade trees required.

Shade trees in conformance with Section 17.630.008 shall be required as follows:

- A. Within any public parking lot;
- B. Within any area of required landscaping;
- C. Within any area of open land use. (Ord. 408 (part), 1987)

17.630.007 Exceptions—Landscaping and screening.

The exception to the landscape and screening requirements are as follows:

A. The standards set forth in this chapter for location and height of landscaping or screening may be modified by the city when such landscaping or screening would constitute a danger to traffic by reason of impairment of vision at a street or drive-way intersection.

B. Screening shall not be required along a lot line where a building wall, solid fence or freestanding wall of the required height exists immediately abutting and on the other side of the lot line. (Ord. 408 (part), 1987)

17.630.008 Landscape standards.

Required landscaping, to include shade trees, shall be installed in accordance with the following minimum standards. These standards may be ex-

ceeded voluntarily by the developer and greater standards may be imposed as a condition of an approved permit:

A. Parking lots and other open land uses which are visible to, or accessible to the public shall be landscaped at the following rate:

Parking Lot Size (Spaces)	or Open Space Area (Acres)	Percent of Lot In Landscaping
6 or less	.1 AC	4%
7 to 15	.2 AC	7%
16 to 30	.3 AC	10%
31 to 70	.4 AC	13%
71 or more	.5 AC	16%

B. Landscaped areas, parking lots and other open land uses shall be required to have shade trees at the rate of sixteen trees per acre or fraction thereof.

C. Shade trees generally shall be of a fifteen-gallon can size having a minimum height of six feet and a one-inch caliper. Modification of these standards for equivalent quality of tree may be permitted by the city depending on tree species and quality of stock.

D. Shade trees shall be scattered within a parking lot approximately thirty feet apart and may be clustered within landscaped areas.

E. Landscaped areas and tree wells shall be contained by pavement, fences or walls, or shall be contained in planters and tree wells bordered by a minimum six-inch-high concrete curb or equivalent approved by the city.

F. Planters and tree wells shall have a width of not less than five feet and shall be protected from automobile overhang where necessary through the provision of tire stops or other barriers approved by the city.

G. Landscaped areas and planters shall be watered by an automatic irrigation system approved by the city and designed to maximize water conservation.

H. All landscaping shall be maintained in good growing condition. Maintenance shall include, where appropriate, pruning, mowing, weeding, cleaning, fertilizing and regular watering. Whenever necessary, planting shall be replaced with other plant

materials to insure continued compliance with applicable landscaping requirements.

I. Paved and graveled walkways and the use of gravel or similar materials as a landscape feature shall not exceed twenty percent of the landscape area.

J. Vegetative materials shall be selected from among those known to be suitable to the climate of the city of Brentwood area.

K. In order to foster water conservation programs the use of native plants or other plant material proven to require minimal watering shall be permitted and encouraged.

L. Except for shade trees, landscaping or screening shall not exceed three feet in height within thirty-five feet of the street corner on any corner lots.

M. Within overhead utility line easements trees shall be of a type that customarily grow to a height not exceeding fifteen feet.

N. Within underground utility line easements the planting of trees shall be prohibited. (Ord. 408 (part), 1987)

17.630.009 Screening standards.

Required screening shall be installed in accordance with the following minimum standards;

A. Except where a greater height is required by the city for noise abatement, fences and walls shall not exceed a height of six feet.

B. Walls shall be constructed in conformance with the requirements of the city director of public works.

C. Fence supports should be on a maximum of six-foot centers and cemented in place and may be four-by-four wood posts, pipe or masonry piers.

D. Fence covering shall be masonry, wood boards of not less than one-inch thickness or a chain link type fence with slats, vegetative or other durable screening.

E. Fences or walls shall be maintained in good repair, including painting if required, without any signs or advertising thereon except in conformance with the city sign ordinance.

F. Vegetative screening may include an evergreen hedge or a mix of evergreen shrubs and trees of a type, density and spacing so that sight and illumination will be obscured through the screening within three years of planting.

G. Except for trees, vegetative screening shall be maintained at a height of not less than six feet nor more than ten feet.

H. An earth berm may be used in combination with any of the above types of screening, but not more than two-thirds of the required height of such screening may be provided by the berm.

I. All screening shall follow the lot line of the lot to be screened, or the inside edge of the sidewalks or shall be so arranged within the boundaries of the lot as to substantially screen, from adjoining properties the building, facility or activity required to be screened. (Ord. 408 (part), 1987)

17.630.010 Landscaping for new development.

A. Plant Selection. At least ninety percent of the plants selected in nonturf areas shall be well-suited to the climate of Brentwood and require minimal water once established. Up to ten percent of the plants may be of a non-drought tolerant variety as long as they are grouped together and can be irrigated separately.

B. Turf Selection and Limitations.

1. The combined turf and/or water area (i.e., pools, ponds and fountains) shall be limited to twenty-five percent of landscape areas. Turf limitation is excluded for public parks, golf courses, cemeteries, school and recreation areas;

2. No turf shall be allowed:

- a. In median strips,
- b. In areas less than eight feet wide,
- c. On slopes greater than 4:1.

C. Soil Conditioning and Mulching.

1. A soil analysis shall be submitted with the landscape plans, showing general suitability, soluble salts, available micronutrients, plus gypsum requirement and applicable recommendations;

2. A minimum of two inches of mulch shall be added in nonturf areas to the soil surface after plant-

ing. Nonporous material shall not be placed under the mulch.

D. Irrigation.

1. Sprinklers and sprays shall not be used in areas less than eight feet wide. Micro-irrigation devices and/or bubblers shall be used that do not exceed 1.5 gallons per minute per device;

2. Sprinkler heads with a precipitation rate of .85 inches per hour or less shall be used on slopes exceeding fifteen percent to minimize runoff, or exceeding ten percent within ten feet of hardscape;

3. Valves and circuits shall be separated based on water use (hydrozoning);

4. Bubbler irrigation systems are required for newly installed trees;

5. Sprinkler heads must have matched precipitation rates within each control valve circuit;

6. Serviceable check valves are required where elevation differential may cause low head drainage;

7. Sprinkler head spacing shall be designed for head-to-head coverage. The system should be designed for minimum runoff and overspray onto nonirrigated areas;

8. All irrigation systems shall be equipped with an automatic controller capable of multiple programming. Controllers must have multiple cycle start capacity and a flexible calendar program;

9. Pop-up sprinklers in lawn areas shall have at least a four inch pop-up height;

10. All irrigation systems shall be equipped with automatic rain shutoff devices and high-flow shutoff valves at heads adjacent to walks, curbs or other high-traffic areas, or other flow sensor devices;

11. Irrigation plans shall include:

a. Irrigated turf area (in square feet),

b. Irrigated nonturf area (in square feet),

c. Flow rate in gallons per minute per valve,

d. Estimated annual water use per hydrozone in gallons (see Exhibit A attached to the ordinance codified in this chapter for formula),

e. Estimated total annual water use in gallons (sum of all hydrozones);

12. Upon completing the installation of the landscaping and irrigation system, during the maintenance

period, an irrigation audit shall be performed by a certified landscape irrigation auditor.

E. Certification. A licensed contractor and a licensed landscape architect and/or certified irrigation designer and/or other licensed or certified professional in a related field shall conduct a final field observation and shall provide a certificate of substantial completion to the city. (See Exhibit C attached to the ordinance codified in this chapter for the certificate of substantial completion.) (Ord. 523 § 4, 1992; Ord. 408 (part), 1987)

17.630.011 Installation.

All landscaping, shade trees and screening required pursuant to this chapter shall be installed prior to granting of any occupancy permit(s) approval. Except upon submittal of a bond or other surety acceptable to the city, installation may be deferred for a period not to exceed six months from the date of occupancy. (Ord. 523 § 5, 1992)

APPENDIX H

CUWCC BEST MANAGEMENT PRACTICES REPORTS

Water Supply & Reuse

Reporting Unit:

Year:

City of Brentwood**2003****Water Supply Source Information**

Supply Source Name	Quantity (AF) Supplied	Supply Type
Contra Costa Water District	2693.91	Imported
City Well 6	580.77	Groundwater
City Well 7	806.56	Groundwater
City Well 8	765.59	Groundwater
City Well 11	344.59	Groundwater
City Well 12	309.22	Groundwater
City Well 13	298.33	Groundwater
City Well 14	1276.83	Groundwater

Total AF: 7075.8

Reported as of 1/4/06

Accounts & Water Use

Reporting Unit Name:
City of Brentwood

Submitted to CUWCC
02/28/2005

Year:
2003

A. Service Area Population Information:

1. Total service area population 35000

B. Number of Accounts and Water Deliveries (AF)

Type	Metered		Unmetered	
	No. of Accounts	Water Deliveries (AF)	No. of Accounts	Water Deliveries (AF)
1. Single-Family	12000	6046.01	0	0
2. Multi-Family	14	3.04	0	0
3. Commercial	302	720.43	0	0
4. Industrial	0	0	0	0
5. Institutional	0	0	0	0
6. Dedicated Irrigation	280	901.71	0	0
7. Recycled Water	0	0	0	0
8. Other	0	0	0	0
9. Unaccounted	NA	0	NA	0
Total	12596	7671.19	0	0

Metered**Unmetered**

Reported as of 1/4/06

BMP 01: Water Survey Programs for Single-Family and Multi-Family Residential Customers

Reporting Unit:
City of Brentwood

BMP Form Status:
100% Complete

Year:
2003

A. Implementation

1. Based on your signed MOU date, 05/11/1999, your Agency STRATEGY DUE DATE is: 05/10/2001
2. Has your agency developed and implemented a targeting/marketing strategy for SINGLE-FAMILY residential water use surveys? no
 - a. If YES, when was it implemented?
3. Has your agency developed and implemented a targeting/marketing strategy for MULTI-FAMILY residential water use surveys? no
 - a. If YES, when was it implemented?

B. Water Survey Data

Survey Counts:	Single Family Accounts	Multi-Family Units
1. Number of surveys offered:	0	0
2. Number of surveys completed:	0	0
Indoor Survey:		
3. Check for leaks, including toilets, faucets and meter checks	no	no
4. Check showerhead flow rates, aerator flow rates, and offer to replace or recommend replacement, if necessary	no	no
5. Check toilet flow rates and offer to install or recommend installation of displacement device or direct customer to ULFT replacement program, as necessary; replace leaking toilet flapper, as necessary	no	no
Outdoor Survey:		
6. Check irrigation system and timers	no	no
7. Review or develop customer irrigation schedule	no	no
8. Measure landscaped area (Recommended but not required for surveys)	no	no
9. Measure total irrigable area (Recommended but not required for surveys)	no	no
10. Which measurement method is typically used (Recommended but not required for surveys)		None

11. Were customers provided with information packets that included evaluation results and water savings recommendations? no no

12. Have the number of surveys offered and completed, survey results, and survey costs been tracked? no no

a. If yes, in what form are surveys tracked?

b. Describe how your agency tracks this information.

C. Water Survey Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

D. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

E. Comments

BMP 02: Residential Plumbing Retrofit

Reporting Unit:

City of Brentwood

BMP Form Status:

100% Complete

Year:

2003**A. Implementation**

1. Is there an enforceable ordinance in effect in your service area requiring replacement of high-flow showerheads and other water use fixtures with their low-flow counterparts? no

a. If YES, list local jurisdictions in your service area and code or ordinance in each:

2. Has your agency satisfied the 75% saturation requirement for single-family housing units? no

3. Estimated percent of single-family households with low-flow showerheads: 70%

4. Has your agency satisfied the 75% saturation requirement for multi-family housing units? no

5. Estimated percent of multi-family households with low-flow showerheads: 60%

6. If YES to 2 OR 4 above, please describe how saturation was determined, including the dates and results of any survey research.

B. Low-Flow Device Distribution Information

1. Has your agency developed a targeting/ marketing strategy for distributing low-flow devices? no

a. If YES, when did your agency begin implementing this strategy?

b. Describe your targeting/ marketing strategy.

Low-Flow Devices Distributed/ Installed**SF
Accounts****MF Units**

2. Number of low-flow showerheads distributed:	0	0
3. Number of toilet-displacement devices distributed:	0	0
4. Number of toilet flappers distributed:	0	0
5. Number of faucet aerators distributed:	0	0
6. Does your agency track the distribution and cost of low-flow devices?		no

a. If YES, in what format are low-flow devices tracked?

b. If yes, describe your tracking and distribution system :

C. Low-Flow Device Distribution Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

D. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

E. Comments

Reported as of 1/4/06

BMP 03: System Water Audits, Leak Detection and Repair

Reporting Unit:
City of Brentwood

BMP Form Status:
100% Complete

Year:
2003

A. Implementation

1. Has your agency completed a pre-screening system audit for this reporting year? no
2. If YES, enter the values (AF/Year) used to calculate verifiable use as a percent of total production:
 - a. Determine metered sales (AF) 7671
 - b. Determine other system verifiable uses (AF) 0
 - c. Determine total supply into the system (AF) 7601
 - d. Using the numbers above, if (Metered Sales + Other Verifiable Uses) / Total Supply is < 0.9 then a full-scale system audit is required. 1.01
3. Does your agency keep necessary data on file to verify the values used to calculate verifiable uses as a percent of total production? yes
4. Did your agency complete a full-scale audit during this report year? no
5. Does your agency maintain in-house records of audit results or the completed AWWA audit worksheets for the completed audit? no
6. Does your agency operate a system leak detection program? no
 - a. If yes, describe the leak detection program:

B. Survey Data

1. Total number of miles of distribution system line. 118.38
2. Number of miles of distribution system line surveyed. 0

C. System Audit / Leak Detection Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

D. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No
 - a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

E. Comments

BMP 04: Metering with Commodity Rates for all New Connections and Retrofit of Existing

Reporting Unit:
City of Brentwood

BMP Form Status:
100% Complete

Year:
2003

A. Implementation

1. Does your agency require meters for all new connections and bill by volume-of-use? yes
2. Does your agency have a program for retrofitting existing unmetered connections and bill by volume-of-use? no
 - a. If YES, when was the plan to retrofit and bill by volume-of-use existing unmetered connections completed?

b. Describe the program:

3. Number of previously unmetered accounts fitted with meters during report year. 0

B. Feasibility Study

1. Has your agency conducted a feasibility study to assess the merits of a program to provide incentives to switch mixed-use accounts to dedicated landscape meters? no
 - a. If YES, when was the feasibility study conducted? (mm/dd/yy)

b. Describe the feasibility study:

Sewer rates were based on metered water sales so irrigation meters were implimented

2. Number of CII accounts with mixed-use meters. 200
3. Number of CII accounts with mixed-use meters retrofitted with dedicated irrigation meters during reporting period. 0

C. Meter Retrofit Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

D. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No
 - a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

E. Comments

BMP 05: Large Landscape Conservation Programs and Incentives

Reporting Unit:
City of Brentwood

BMP Form Status:
100% Complete

Year:
2003

A. Water Use Budgets

- | | |
|--|-----|
| 1. Number of Dedicated Irrigation Meter Accounts: | 280 |
| 2. Number of Dedicated Irrigation Meter Accounts with Water Budgets: | 0 |
| 3. Budgeted Use for Irrigation Meter Accounts with Water Budgets (AF): | 0 |
| 4. Actual Use for Irrigation Meter Accounts with Water Budgets (AF): | 0 |
| 5. Does your agency provide water use notices to accounts with budgets each billing cycle? | no |

B. Landscape Surveys

- | | |
|--|----|
| 1. Has your agency developed a marketing / targeting strategy for landscape surveys? | no |
| a. If YES, when did your agency begin implementing this strategy? | |
| b. Description of marketing / targeting strategy: | |
| 2. Number of Surveys Offered. | 0 |
| 3. Number of Surveys Completed. | 0 |
| 4. Indicate which of the following Landscape Elements are part of your survey: | |
| a. Irrigation System Check | no |
| b. Distribution Uniformity Analysis | no |
| c. Review / Develop Irrigation Schedules | no |
| d. Measure Landscape Area | no |
| e. Measure Total Irrigable Area | no |
| f. Provide Customer Report / Information | no |
| 5. Do you track survey offers and results? | no |
| 6. Does your agency provide follow-up surveys for previously completed surveys? | no |

a. If YES, describe below:

C. Other BMP 5 Actions

- | | |
|---|----|
| 1. An agency can provide mixed-use accounts with ETo-based landscape budgets in lieu of a large landscape survey program. Does your agency provide mixed-use accounts with landscape budgets? | no |
| 2. Number of CII mixed-use accounts with landscape budgets. | 0 |
| 3. Do you offer landscape irrigation training? | no |
| 4. Does your agency offer financial incentives to improve landscape water use efficiency? | no |

Type of Financial Incentive:

Budget (Dollars/ Year)	Number Awarded to Customers	Total Amount Awarded
------------------------------	-----------------------------------	----------------------------

a. Rebates

b. Loans

c. Grants

- | | |
|--|----|
| 5. Do you provide landscape water use efficiency information to new customers and customers changing services? | No |
|--|----|

a. If YES, describe below:

- | | |
|---|-----|
| 6. Do you have irrigated landscaping at your facilities? | yes |
| a. If yes, is it water-efficient? | yes |
| b. If yes, does it have dedicated irrigation metering? | yes |
| 7. Do you provide customer notices at the start of the irrigation season? | no |
| 8. Do you provide customer notices at the end of the irrigation season? | no |

D. Landscape Conservation Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	5000
2. Actual Expenditures	0	

E. "At Least As Effective As"

- | | |
|--|----|
| 1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? | No |
| a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as." | |

F. Comments

BMP 06: High-Efficiency Washing Machine Rebate Programs

Reporting Unit:
City of Brentwood

BMP Form Status:
100% Complete

Year:
2003

A. Implementation

1. Do any energy service providers or waste water utilities in your service area offer rebates for high-efficiency washers? no
- a. If YES, describe the offerings and incentives as well as who the energy/waste water utility provider is.

2. Does your agency offer rebates for high-efficiency washers? no
3. What is the level of the rebate? 0
4. Number of rebates awarded. 0

B. Rebate Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no
- a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

BMP 07: Public Information Programs

Reporting Unit:
City of Brentwood

BMP Form Status:
100% Complete

Year:
2003

A. Implementation

1. Does your agency maintain an active public information program to promote and educate customers about water conservation? yes

a. If YES, describe the program and how it's organized.

Web based & news letter

2. Indicate which and how many of the following activities are included in your public information program.

Public Information Program Activity	Yes/No	Number of Events
a. Paid Advertising	yes	4
b. Public Service Announcement	no	
c. Bill Inserts / Newsletters / Brochures	yes	4
d. Bill showing water usage in comparison to previous year's usage	yes	
e. Demonstration Gardens	no	
f. Special Events, Media Events	yes	4
g. Speaker's Bureau	no	
h. Program to coordinate with other government agencies, industry and public interest groups and media	yes	

B. Conservation Information Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

BMP 08: School Education Programs

Reporting Unit:
City of Brentwood

BMP Form Status:
100% Complete

Year:
2003

A. Implementation

1. Has your agency implemented a school information program to promote water conservation? no

2. Please provide information on your school programs (by grade level):

Grade	Are grade-appropriate materials distributed?	No. of class presentations	No. of students reached	No. of teachers' workshops
-------	--	----------------------------	-------------------------	----------------------------

Grades K-3rd

Grades 4th-6th

Grades 7th-8th

High School

3. Did your Agency's materials meet state education framework requirements?

4. When did your Agency begin implementing this program?

B. School Education Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	1200
2. Actual Expenditures	0	

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

BMP 09: Conservation Programs for CII Accounts

Reporting Unit:

City of Brentwood

BMP Form Status:

100% Complete

Year:

2003**A. Implementation**

- | | |
|--|----|
| 1. Has your agency identified and ranked COMMERCIAL customers according to use? | no |
| 2. Has your agency identified and ranked INDUSTRIAL customers according to use? | no |
| 3. Has your agency identified and ranked INSTITUTIONAL customers according to use? | no |

Option A: CII Water Use Survey and Customer Incentives Program

- | | |
|---|----|
| 4. Is your agency operating a CII water use survey and customer incentives program for the purpose of complying with BMP 9 under this option? | no |
|---|----|

CII Surveys	Commercial Accounts	Industrial Accounts	Institutional Accounts
a. Number of New Surveys Offered			
b. Number of New Surveys Completed			
c. Number of Site Follow-ups of Previous Surveys (within 1 yr)			
d. Number of Phone Follow-ups of Previous Surveys (within 1 yr)			
CII Survey Components	Commercial Accounts	Industrial Accounts	Institutional Accounts
e. Site Visit			
f. Evaluation of all water-using apparatus and processes			
g. Customer report identifying recommended efficiency measures, paybacks and agency incentives			
Agency CII Customer Incentives	Budget (\$/Year)	No. Awarded to Customers	Total \$ Amount Awarded
h. Rebates			
i. Loans			
j. Grants			
k. Others			

Option B: CII Conservation Program Targets

5. Does your agency track CII program interventions and water savings for the purpose of complying with BMP 9 under this option? no

6. Does your agency document and maintain records on how savings were realized and the method of calculation for estimated savings?

7. Estimated annual savings (AF/yr) from site-verified actions taken by agency since 1991.

8. Estimated annual savings (AF/yr) from non-site-verified actions taken by agency since 1991.

B. Conservation Program Expenditures for CII Accounts

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

Did not have funding or sufficient staff

BMP 09a: CII ULFT Water Savings

Reporting Unit:

City of Brentwood

BMP Form Status:

100% Complete

Year:

2003

1. Did your agency implement a CII ULFT replacement program in the reporting year?

No

If No, please explain why on Line B. 10.

A. Targeting and Marketing

1. What basis does your agency use to target customers for participation in this program?

Check all that apply.

- a. Describe which method you found to be the most effective overall, and which was the most effective per dollar expended.

2. How does your agency advertise this program? Check all that apply.

- a. Describe which method you found to be the most effective overall, and which was the most effective per dollar expended.

B. Implementation

1. Does your agency keep and maintain customer participant information? (Read the Help information for a complete list of all the information for this BMP.)
2. Would your agency be willing to share this information if the CUWCC did a study to evaluate the program on behalf of your agency?
3. What is the total number of customer accounts participating in the program during the last year ?

CII Subsector	Number of Toilets Replaced				Type Not Specified
	Standard Gravity Tank	Air Assisted	Valve Floor Mount	Valve Wall Mount	
4.					
a. Offices					
b. Retail / Wholesale					
c. Hotels					
d. Health					
e. Industrial					

- f. Schools:
K to 12
- g. Eating
- h. Govern-
ment
- i. Churches
- j. Other

5. Program design.

6. Does your agency use outside services to implement this program?

a. If yes, check all that apply.

7. Participant tracking and follow-up.

8. Based on your program experience, please rank on a scale of 1 to 5, with 1 being the least frequent cause and 5 being the most frequent cause, the following reasons why customers refused to participate in the program.

- a. Disruption to business
- b. Inadequate payback
- c. Inadequate ULFT performance
- d. Lack of funding
- e. American's with Disabilities Act
- f. Permitting
- g. Other. Please describe in B. 9.

9. Please describe general program acceptance/resistance by customers, obstacles to implementation, and other issues affecting program implementation or effectiveness.

10. Please provide a general assessment of the program for this reporting year. Did your program achieve its objectives? Were your targeting and marketing approaches effective? Were program costs in line with expectations and budgeting?

The city does not have a replacement program. The majority of the City has been built after 1992 and has ULFT's existing.

C. Conservation Program Expenditures for CII ULFT

1. CII ULFT Program: Annual Budget & Expenditure Data

	Budgeted	Actual Expenditure
a. Labor	0	0
b. Materials	0	0
c. Marketing & Advertising	0	0

d. Administration & Overhead	0	0
e. Outside Services	0	0
f. Total	0	0

2. CII ULFT Program: Annual Cost Sharing

a. Wholesale agency contribution		0
b. State agency contribution		0
c. Federal agency contribution		0
d. Other contribution		0
e. Total		0

D. Comments

BMP 11: Conservation Pricing

Reporting Unit:
City of Brentwood

BMP Form Status:
100% Complete

Year:
2003

A. Implementation**Rate Structure Data Volumetric Rates for Water Service by Customer Class****1. Residential**

a. Water Rate Structure	Uniform
b. Sewer Rate Structure	Uniform
c. Total Revenue from Volumetric Rates	\$3723235.74
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$1800000

2. Commercial

a. Water Rate Structure	Uniform
b. Sewer Rate Structure	Uniform
c. Total Revenue from Volumetric Rates	\$443650
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$200000

3. Industrial

a. Water Rate Structure	Service Not Provided
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$0
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$0

4. Institutional / Government

a. Water Rate Structure	Service Not Provided
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$0
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$0

5. Irrigation

a. Water Rate Structure	Uniform
b. Sewer Rate Structure	Uniform
c. Total Revenue from Volumetric Rates	\$555290

d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources \$100000

6. Other

a. Water Rate Structure Uniform

b. Sewer Rate Structure Uniform

c. Total Revenue from Volumetric Rates \$1870

d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources \$200

B. Conservation Pricing Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

Other indicates multi-family

BMP 12: Conservation Coordinator

Reporting Unit:

City of Brentwood

BMP Form Status:

100% Complete

Year:

2003**A. Implementation**

1. Does your Agency have a conservation coordinator? no
2. Is this a full-time position? no
3. If no, is the coordinator supplied by another agency with which you cooperate in a regional conservation program ? no
4. Partner agency's name:
5. If your agency supplies the conservation coordinator:
 - a. What percent is this conservation coordinator's position? %
 - b. Coordinator's Name
 - c. Coordinator's Title
 - d. Coordinator's Experience and Number of Years
 - e. Date Coordinator's position was created (mm/dd/yyyy)

6. Number of conservation staff, including Conservation Coordinator. 0

B. Conservation Staff Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no
 - a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

BMP 13: Water Waste Prohibition

Reporting Unit:

City of Brentwood

BMP Form Status:

100% Complete

Year:

2003

A. Requirements for Documenting BMP Implementation

1. Is a water waste prohibition ordinance in effect in your service area? no

a. If YES, describe the ordinance:

2. Is a copy of the most current ordinance(s) on file with CUWCC? no

a. List local jurisdictions in your service area in the first text box and water waste ordinance citations in each jurisdiction in the second text box:

B. Implementation

1. Indicate which of the water uses listed below are prohibited by your agency or service area.

a. Gutter flooding no

b. Single-pass cooling systems for new connections yes

c. Non-recirculating systems in all new conveyor or car wash systems yes

d. Non-recirculating systems in all new commercial laundry systems yes

e. Non-recirculating systems in all new decorative fountains no

f. Other, please name no

2. Describe measures that prohibit water uses listed above:

New cooling systems require closed systems, Car wash / conveyor must recirculate, decorative fountains recirculate.

Water Softeners:

3. Indicate which of the following measures your agency has supported in developing state law:

a. Allow the sale of more efficient, demand-initiated regenerating DIR models. yes

b. Develop minimum appliance efficiency standards that:

i.) Increase the regeneration efficiency standard to at least 3,350 grains of hardness removed per pound of common salt used. yes

ii.) Implement an identified maximum number of gallons discharged per gallon of soft water produced. yes

c. Allow local agencies, including municipalities and special districts, to set more stringent standards and/or to ban on-site regeneration of water softeners if it is demonstrated and found by the agency governing board that there is an adverse effect on the reclaimed water or groundwater supply. yes

4. Does your agency include water softener checks in home water audit programs? yes

5. Does your agency include information about DIR and exchange-type water softeners in educational efforts to encourage replacement of less efficient timer models? yes

C. Water Waste Prohibition Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	1500	1500
2. Actual Expenditures	1250	

D. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

E. Comments

BMP 14: Residential ULFT Replacement Programs

Reporting Unit:

City of Brentwood

BMP Form Status:

100% Complete

Year:

2003

A. Implementation

	Single-Family Accounts	Multi-Family Units
1. Does your Agency have program(s) for replacing high-water-using toilets with ultra-low flush toilets?	no	no
Number of Toilets Replaced by Agency Program During Report Year		
Replacement Method	SF Accounts	MF Units
2. Rebate		
3. Direct Install		
4. CBO Distribution		
5. Other		

Total

6. Describe your agency's ULFT program for single-family residences.

7. Describe your agency's ULFT program for multi-family residences.

8. Is a toilet retrofit on resale ordinance in effect for your service area? no

9. List local jurisdictions in your service area in the left box and ordinance citations in each jurisdiction in the right box:

B. Residential ULFT Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

The majority of the City has ULFT.

Water Supply & Reuse

Reporting Unit:
City of Brentwood

Year:
2004

Water Supply Source Information

Supply Source Name	Quantity (AF) Supplied	Supply Type
Contra Costa Water District	3742.21	Imported
City Well 6	571.98	Groundwater
City Well 7	938.89	Groundwater
City Well 8	909.92	Groundwater
City Well 11	504.1	Groundwater
City Well 12	342.05	Groundwater
City Well 13	394.42	Groundwater
City Well 14	1615.1	Groundwater

Total AF: 9018.67

Reported as of 1/4/06

Accounts & Water Use

Reporting Unit Name:
City of Brentwood

Submitted to CUWCC
02/28/2005

Year:
2004

A. Service Area Population Information:

1. Total service area population 40000

B. Number of Accounts and Water Deliveries (AF)

Type	Metered		Unmetered	
	No. of Accounts	Water Deliveries (AF)	No. of Accounts	Water Deliveries (AF)
1. Single-Family	12651	7455.59	0	0
2. Multi-Family	17	48.78	0	0
3. Commercial	336	756.51	0	0
4. Industrial	0	0	0	0
5. Institutional	0	0	0	0
6. Dedicated Irrigation	288	952.35	0	0
7. Recycled Water	0	0	0	0
8. Other	0	137.73	0	0
9. Unaccounted	NA	0	NA	0
Total	13292	9350.96	0	0

Metered**Unmetered**

Reported as of 1/4/06

BMP 01: Water Survey Programs for Single-Family and Multi-Family Residential Customers

Reporting Unit:
City of Brentwood

BMP Form Status:
100% Complete

Year:
2004

A. Implementation

1. Based on your signed MOU date, 05/11/1999, your Agency STRATEGY DUE DATE is: 05/10/2001
2. Has your agency developed and implemented a targeting/marketing strategy for SINGLE-FAMILY residential water use surveys? no
 - a. If YES, when was it implemented?
3. Has your agency developed and implemented a targeting/marketing strategy for MULTI-FAMILY residential water use surveys? no
 - a. If YES, when was it implemented?

B. Water Survey Data

Survey Counts:	Single Family Accounts	Multi-Family Units
1. Number of surveys offered:	4	0
2. Number of surveys completed:	4	0
Indoor Survey:		
3. Check for leaks, including toilets, faucets and meter checks	yes	no
4. Check showerhead flow rates, aerator flow rates, and offer to replace or recommend replacement, if necessary	yes	no
5. Check toilet flow rates and offer to install or recommend installation of displacement device or direct customer to ULFT replacement program, as necessary; replace leaking toilet flapper, as necessary	yes	no
Outdoor Survey:		
6. Check irrigation system and timers	yes	no
7. Review or develop customer irrigation schedule	yes	no
8. Measure landscaped area (Recommended but not required for surveys)	yes	no
9. Measure total irrigable area (Recommended but not required for surveys)	yes	no
10. Which measurement method is typically used (Recommended but not required for surveys)	Odometer Wheel	

- | | | |
|--|-----|------|
| 11. Were customers provided with information packets that included evaluation results and water savings recommendations? | yes | no |
| 12. Have the number of surveys offered and completed, survey results, and survey costs been tracked? | no | no |
| a. If yes, in what form are surveys tracked? | | None |
| b. Describe how your agency tracks this information. | | |

C. Water Survey Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	2500	5000
2. Actual Expenditures	2500	

D. "At Least As Effective As"

- | | |
|--|----|
| 1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? | No |
| a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as." | |

E. Comments

BMP 02: Residential Plumbing Retrofit

Reporting Unit:
City of Brentwood

BMP Form Status:
100% Complete

Year:
2004

A. Implementation

1. Is there an enforceable ordinance in effect in your service area requiring replacement of high-flow showerheads and other water use fixtures with their low-flow counterparts? no

a. If YES, list local jurisdictions in your service area and code or ordinance in each:

2. Has your agency satisfied the 75% saturation requirement for single-family housing units? no

3. Estimated percent of single-family households with low-flow showerheads: 75%

4. Has your agency satisfied the 75% saturation requirement for multi-family housing units? no

5. Estimated percent of multi-family households with low-flow showerheads: 62%

6. If YES to 2 OR 4 above, please describe how saturation was determined, including the dates and results of any survey research.

B. Low-Flow Device Distribution Information

1. Has your agency developed a targeting/ marketing strategy for distributing low-flow devices? no

a. If YES, when did your agency begin implementing this strategy?

b. Describe your targeting/ marketing strategy.

Low-Flow Devices Distributed/ Installed	SF Accounts	MF Units
2. Number of low-flow showerheads distributed:	0	0
3. Number of toilet-displacement devices distributed:	0	0
4. Number of toilet flappers distributed:	0	0
5. Number of faucet aerators distributed:	0	0
6. Does your agency track the distribution and cost of low-flow devices?		no

a. If YES, in what format are low-flow devices tracked?

b. If yes, describe your tracking and distribution system :

C. Low-Flow Device Distribution Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	37000
2. Actual Expenditures	0	

D. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

E. Comments

BMP 03: System Water Audits, Leak Detection and Repair

Reporting Unit:

City of Brentwood

BMP Form Status:

100% Complete

Year:

2004

A. Implementation

1. Has your agency completed a pre-screening system audit for this reporting year? no

2. If YES, enter the values (AF/Year) used to calculate verifiable use as a percent of total production:

a. Determine metered sales (AF) 9213.46

b. Determine other system verifiable uses (AF) 137.73

c. Determine total supply into the system (AF) 9358

d. Using the numbers above, if (Metered Sales + Other Verifiable Uses) / Total Supply is < 0.9 then a full-scale system audit is required. 1.00

3. Does your agency keep necessary data on file to verify the values used to calculate verifiable uses as a percent of total production? yes

4. Did your agency complete a full-scale audit during this report year? no

5. Does your agency maintain in-house records of audit results or the completed AWWA audit worksheets for the completed audit? no

6. Does your agency operate a system leak detection program? yes

a. If yes, describe the leak detection program:

FCS Data loggers

B. Survey Data

1. Total number of miles of distribution system line. 119.73

2. Number of miles of distribution system line surveyed. 59.86

C. System Audit / Leak Detection Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	45000	20000
2. Actual Expenditures	48000	

D. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

E. Comments

BMP 04: Metering with Commodity Rates for all New Connections and Retrofit of Existing

Reporting Unit:
City of Brentwood

BMP Form Status:
100% Complete

Year:
2004

A. Implementation

1. Does your agency require meters for all new connections and bill by volume-of-use? yes
2. Does your agency have a program for retrofitting existing unmetered connections and bill by volume-of-use? no
 - a. If YES, when was the plan to retrofit and bill by volume-of-use existing unmetered connections completed?
 - b. Describe the program:
3. Number of previously unmetered accounts fitted with meters during report year. 0

B. Feasibility Study

1. Has your agency conducted a feasibility study to assess the merits of a program to provide incentives to switch mixed-use accounts to dedicated landscape meters? no
 - a. If YES, when was the feasibility study conducted? (mm/dd/yy)
 - b. Describe the feasibility study:
2. Number of CII accounts with mixed-use meters. 205
3. Number of CII accounts with mixed-use meters retrofitted with dedicated irrigation meters during reporting period. 0

C. Meter Retrofit Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

D. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No
 - a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

E. Comments

BMP 05: Large Landscape Conservation Programs and Incentives

Reporting Unit:

City of Brentwood

BMP Form Status:

100% Complete

Year:

2004

A. Water Use Budgets

- | | |
|--|-----|
| 1. Number of Dedicated Irrigation Meter Accounts: | 288 |
| 2. Number of Dedicated Irrigation Meter Accounts with Water Budgets: | 0 |
| 3. Budgeted Use for Irrigation Meter Accounts with Water Budgets (AF): | 0 |
| 4. Actual Use for Irrigation Meter Accounts with Water Budgets (AF): | 0 |
| 5. Does your agency provide water use notices to accounts with budgets each billing cycle? | no |

B. Landscape Surveys

- | | |
|--|----|
| 1. Has your agency developed a marketing / targeting strategy for landscape surveys? | no |
| a. If YES, when did your agency begin implementing this strategy? | |
| b. Description of marketing / targeting strategy: | |
| 2. Number of Surveys Offered. | 0 |
| 3. Number of Surveys Completed. | 0 |
| 4. Indicate which of the following Landscape Elements are part of your survey: | |
| a. Irrigation System Check | no |
| b. Distribution Uniformity Analysis | no |
| c. Review / Develop Irrigation Schedules | no |
| d. Measure Landscape Area | no |
| e. Measure Total Irrigable Area | no |
| f. Provide Customer Report / Information | no |
| 5. Do you track survey offers and results? | no |
| 6. Does your agency provide follow-up surveys for previously completed surveys? | no |

a. If YES, describe below:

C. Other BMP 5 Actions

1. An agency can provide mixed-use accounts with ETo-based landscape budgets in lieu of a large landscape survey program. Does your agency provide mixed-use accounts with landscape budgets? no
2. Number of CII mixed-use accounts with landscape budgets. 0
3. Do you offer landscape irrigation training? no
4. Does your agency offer financial incentives to improve landscape water use efficiency? no

Type of Financial Incentive:

	Budget (Dollars/ Year)	Number Awarded to Customers	Total Amount Awarded
a. Rebates			
b. Loans			
c. Grants			

5. Do you provide landscape water use efficiency information to new customers and customers changing services? No

a. If YES, describe below:

6. Do you have irrigated landscaping at your facilities? yes
 - a. If yes, is it water-efficient? yes
 - b. If yes, does it have dedicated irrigation metering? yes
7. Do you provide customer notices at the start of the irrigation season? yes
8. Do you provide customer notices at the end of the irrigation season? yes

D. Landscape Conservation Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	5000	5000
2. Actual Expenditures	5000	

E. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No
 - a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

F. Comments

Reported as of 1/4/06

BMP 06: High-Efficiency Washing Machine Rebate Programs

Reporting Unit:

City of Brentwood

BMP Form Status:

100% Complete

Year:

2004

A. Implementation

1. Do any energy service providers or waste water utilities in your service area offer rebates for high-efficiency washers? no

a. If YES, describe the offerings and incentives as well as who the energy/waste water utility provider is.

2. Does your agency offer rebates for high-efficiency washers? no

3. What is the level of the rebate? 0

4. Number of rebates awarded. 0

B. Rebate Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	37000
2. Actual Expenditures	0	

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

BMP 07: Public Information Programs

Reporting Unit:

City of Brentwood

BMP Form Status:

100% Complete

Year:

2004**A. Implementation**

1. Does your agency maintain an active public information program to promote and educate customers about water conservation? **yes**

a. If YES, describe the program and how it's organized.

Web based & news letter

2. Indicate which and how many of the following activities are included in your public information program.

Public Information Program Activity	Yes/No	Number of Events
a. Paid Advertising	yes	4
b. Public Service Announcement	no	
c. Bill Inserts / Newsletters / Brochures	yes	4
d. Bill showing water usage in comparison to previous year's usage	yes	
e. Demonstration Gardens	no	
f. Special Events, Media Events	yes	4
g. Speaker's Bureau	no	
h. Program to coordinate with other government agencies, industry and public interest groups and media	yes	

B. Conservation Information Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	2000	2000
2. Actual Expenditures	2200	

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? **No**

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

BMP 08: School Education Programs

Reporting Unit:

City of Brentwood

BMP Form Status:

100% Complete

Year:

2004**A. Implementation**

1. Has your agency implemented a school information program to promote water conservation? no

2. Please provide information on your school programs (by grade level):

Grade	Are grade-appropriate materials distributed?	No. of class presentations	No. of students reached	No. of teachers' workshops
-------	--	----------------------------	-------------------------	----------------------------

Grades K-3rd

Grades 4th-6th

Grades 7th-8th

High School

3. Did your Agency's materials meet state education framework requirements?

4. When did your Agency begin implementing this program?

B. School Education Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	1200	2000
2. Actual Expenditures	550	

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

BMP 09: Conservation Programs for CII Accounts

Reporting Unit:

City of Brentwood

BMP Form Status:

100% Complete

Year:

2004**A. Implementation**

- | | |
|--|-----|
| 1. Has your agency identified and ranked COMMERCIAL customers according to use? | yes |
| 2. Has your agency identified and ranked INDUSTRIAL customers according to use? | no |
| 3. Has your agency identified and ranked INSTITUTIONAL customers according to use? | no |

Option A: CII Water Use Survey and Customer Incentives Program

- | | |
|---|----|
| 4. Is your agency operating a CII water use survey and customer incentives program for the purpose of complying with BMP 9 under this option? | no |
|---|----|

CII Surveys	Commercial Accounts	Industrial Accounts	Institutional Accounts
a. Number of New Surveys Offered			
b. Number of New Surveys Completed			
c. Number of Site Follow-ups of Previous Surveys (within 1 yr)			
d. Number of Phone Follow-ups of Previous Surveys (within 1 yr)			
CII Survey Components	Commercial Accounts	Industrial Accounts	Institutional Accounts
e. Site Visit			
f. Evaluation of all water-using apparatus and processes			
g. Customer report identifying recommended efficiency measures, paybacks and agency incentives			
Agency CII Customer Incentives	Budget (\$/Year)	No. Awarded to Customers	Total \$ Amount Awarded
h. Rebates			
i. Loans			
j. Grants			
k. Others			

Option B: CII Conservation Program Targets

5. Does your agency track CII program interventions and water savings for the purpose of complying with BMP 9 under this option? no

6. Does your agency document and maintain records on how savings were realized and the method of calculation for estimated savings?

7. Estimated annual savings (AF/yr) from site-verified actions taken by agency since 1991.

8. Estimated annual savings (AF/yr) from non-site-verified actions taken by agency since 1991.

B. Conservation Program Expenditures for CII Accounts

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

Did not have funding or sufficient staff

BMP 09a: CII ULFT Water Savings

Reporting Unit:

City of Brentwood

BMP Form Status:

100% Complete

Year:

2004

1. Did your agency implement a CII ULFT replacement program in the reporting year?

No

If No, please explain why on Line B. 10.

A. Targeting and Marketing

1. What basis does your agency use to target customers for participation in this program?

Check all that apply.

- a. Describe which method you found to be the most effective overall, and which was the most effective per dollar expended.

2. How does your agency advertise this program? Check all that apply.

- a. Describe which method you found to be the most effective overall, and which was the most effective per dollar expended.

B. Implementation

1. Does your agency keep and maintain customer participant information? (Read the Help information for a complete list of all the information for this BMP.)
2. Would your agency be willing to share this information if the CUWCC did a study to evaluate the program on behalf of your agency?
3. What is the total number of customer accounts participating in the program during the last year ?

4.	CII Subsector	Number of Toilets Replaced				Type Not Specified
		Standard Gravity Tank	Air Assisted	Valve Floor Mount	Valve Wall Mount	
a.	Offices					
b.	Retail / Wholesale					
c.	Hotels					
d.	Health					
e.	Industrial					

- f. Schools:
K to 12
- g. Eating
- h. Govern-
ment
- i. Churches
- j. Other

5. Program design.

6. Does your agency use outside services to implement this program?

a. If yes, check all that apply.

7. Participant tracking and follow-up.

8. Based on your program experience, please rank on a scale of 1 to 5, with 1 being the least frequent cause and 5 being the most frequent cause, the following reasons why customers refused to participate in the program.

- a. Disruption to business
- b. Inadequate payback
- c. Inadequate ULFT performance
- d. Lack of funding
- e. American's with Disabilities Act
- f. Permitting
- g. Other. Please describe in B. 9.

9. Please describe general program acceptance/resistance by customers, obstacles to implementation, and other issues affecting program implementation or effectiveness.

10. Please provide a general assessment of the program for this reporting year. Did your program achieve its objectives? Were your targeting and marketing approaches effective? Were program costs in line with expectations and budgeting?

The city does not have a replacement program. The majority of the City has been built after 1992 and has ULFT's existing.

C. Conservation Program Expenditures for CII ULFT

1. CII ULFT Program: Annual Budget & Expenditure Data

	Budgeted	Actual Expenditure
--	-----------------	-------------------------------

- a. Labor
- b. Materials
- c. Marketing &
Advertising

d. Administration & Overhead		
e. Outside Services		
f. Total	0	0

2. CII ULFT Program: Annual Cost Sharing

a. Wholesale agency contribution		
b. State agency contribution		
c. Federal agency contribution		
d. Other contribution		
e. Total		0

D. Comments

BMP 11: Conservation Pricing

Reporting Unit:
City of Brentwood

BMP Form Status:
100% Complete

Year:
2004

A. Implementation**Rate Structure Data Volumetric Rates for Water Service by Customer Class****1. Residential**

a. Water Rate Structure	Increasing Block
b. Sewer Rate Structure	Uniform
c. Total Revenue from Volumetric Rates	\$6340334.67
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$1900000

2. Commercial

a. Water Rate Structure	Increasing Block
b. Sewer Rate Structure	Uniform
c. Total Revenue from Volumetric Rates	\$643346.73
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$210000

3. Industrial

a. Water Rate Structure	Service Not Provided
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$0
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$0

4. Institutional / Government

a. Water Rate Structure	Service Not Provided
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$0
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$0

5. Irrigation

a. Water Rate Structure	Increasing Block
b. Sewer Rate Structure	Uniform
c. Total Revenue from Volumetric Rates	\$809888.22

d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources \$120000

6. Other

a. Water Rate Structure Increasing Block

b. Sewer Rate Structure Uniform

c. Total Revenue from Volumetric Rates \$60768

d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources \$10000

B. Conservation Pricing Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

Other indicates multi-family & Hydrant meters.

BMP 12: Conservation Coordinator

Reporting Unit:
City of Brentwood

BMP Form Status:
100% Complete

Year:
2004

A. Implementation

1. Does your Agency have a conservation coordinator? no
2. Is this a full-time position? no
3. If no, is the coordinator supplied by another agency with which you cooperate in a regional conservation program ? no
4. Partner agency's name:
5. If your agency supplies the conservation coordinator:
 - a. What percent is this conservation coordinator's position? %
 - b. Coordinator's Name
 - c. Coordinator's Title
 - d. Coordinator's Experience and Number of Years
 - e. Date Coordinator's position was created (mm/dd/yyyy)
6. Number of conservation staff, including Conservation Coordinator. 5

B. Conservation Staff Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	50000	50000
2. Actual Expenditures	60000	

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no
 - a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

BMP 13: Water Waste Prohibition

Reporting Unit:

City of Brentwood

BMP Form Status:

100% Complete

Year:

2004

A. Requirements for Documenting BMP Implementation

1. Is a water waste prohibition ordinance in effect in your service area? no

a. If YES, describe the ordinance:

2. Is a copy of the most current ordinance(s) on file with CUWCC? no

a. List local jurisdictions in your service area in the first text box and water waste ordinance citations in each jurisdiction in the second text box:

B. Implementation

1. Indicate which of the water uses listed below are prohibited by your agency or service area.

a. Gutter flooding yes

b. Single-pass cooling systems for new connections yes

c. Non-recirculating systems in all new conveyor or car wash systems yes

d. Non-recirculating systems in all new commercial laundry systems yes

e. Non-recirculating systems in all new decorative fountains no

f. Other, please name no

2. Describe measures that prohibit water uses listed above:

NPDES code enforcement regulates gutters / Storm Drains. New cooling systems require closed systems, Car wash / conveyor must recirculate, decorative fountains recirculate.

Water Softeners:

3. Indicate which of the following measures your agency has supported in developing state law:

a. Allow the sale of more efficient, demand-initiated regenerating DIR models. yes

b. Develop minimum appliance efficiency standards that:

i.) Increase the regeneration efficiency standard to at least 3,350 grains of hardness removed per pound of common salt used. yes

ii.) Implement an identified maximum number of gallons discharged per gallon of soft water produced. yes

c. Allow local agencies, including municipalities and special districts, to set more stringent standards and/or to ban on-site regeneration of water softeners if it is demonstrated and found by the agency governing board that there is an adverse effect on the reclaimed water or groundwater supply. yes

4. Does your agency include water softener checks in home water audit programs? yes

5. Does your agency include information about DIR and exchange-type water softeners in educational efforts to encourage replacement of less efficient timer models? yes

C. Water Waste Prohibition Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	1500	1500
2. Actual Expenditures	1250	

D. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

E. Comments

BMP 14: Residential ULFT Replacement Programs

Reporting Unit:
City of Brentwood

BMP Form Status:
100% Complete

Year:
2004

A. Implementation

	Single-Family Accounts	Multi-Family Units
1. Does your Agency have program(s) for replacing high-water-using toilets with ultra-low flush toilets?	no	no
Number of Toilets Replaced by Agency Program During Report Year		
Replacement Method	SF Accounts	MF Units
2. Rebate		
3. Direct Install		
4. CBO Distribution		
5. Other		

Total

6. Describe your agency's ULFT program for single-family residences.
7. Describe your agency's ULFT program for multi-family residences.
8. Is a toilet retrofit on resale ordinance in effect for your service area? no
9. List local jurisdictions in your service area in the left box and ordinance citations in each jurisdiction in the right box:

B. Residential ULFT Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no
- a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

The majority of the City has ULFT.